

ABSTRACT

The invention provides a method for improving the yield of a CD recorder, adjusting the current recordable rate and a write delay table using the data of a write radio frequency profile. The invention also provides a device for improving the yield of a CD recorder, including: a level comparator for respectively comparing the first, second, and third input signal levels with the first, second, and third determined signal levels and outputting the comparison results; a slicer for converting a write radio frequency into the form of binary signal to extract the write radio frequency profile; a phase comparator for comparing the binary write radio frequency profile with a mark signal profile modulated by the eight-to-fourteen modulation and having a phase error output signal; a low-pass filter for eliminating a low frequency baseline fluctuation in the write radio frequency based on the phase error output signal and generating a jitter value; and a yield control microprocessor for adjusting the pickup output power, the recordable delay time, and the rotation rate of spindle motor based on the output results from the level comparator, the jitter value, and an input cyclic redundancy check (CRC).